ELSEVIER

Journal of Magnetism and Magnetic Materials 241 (2002) 477–480

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Author index to volume 241

Abbate, M., see Schreiner, W.H. 422
Abid, M., see Errahmani, H. 335
Ahmed, F.U., see Yunus, S.M. 40
Alascio, B., see Lamas, D.G. 207
Albano, E.V., see Puzzo, M.L.R. 110
Albayrak, E. and M. Keskin, Phase diagrams of the spin-$\frac{3}{2}$ Blume–Emery–Griffiths model on the Bethe lattice using the recursion method 249
André, G., see Autret, C. 303
Arai, K.-i., see Bi, X. 157
Arhchoui, H., see El Amraoui, Y. 371
Asaf, U., see Nowik, I. 214
Asgar, M.A., see Yunus, S.M. 40
Autret, C., C. Martin, A. Maignan, M. Hervieu, B. Raveau, G. André, F. Bourée, A. Kurbakov and V. Trounov, Destabilization of the cooperative Jahn–Teller effect in $Sm_{0.2}Ca_{0.8}MnO_3$ by Ru-doping 303

Babu, V. and P. Padaikathan, Structure and hard magnetic properties of barium hexaferrite with and without La_2O_3 prepared by ball milling 85
Bae, J.S., see Kim, H.J. 173
Balabanov, D.E., see Nikitov, S.A. 127
Bejjit, L., see El Amraoui, Y. 371
Bentaleb, M., N. El Aouad and M. Saber, Magnetic properties of the spin-$\frac{1}{2}$ transverse ferromagnetic bilayer system with disordered interfaces 390
Benyoussef, A., see El Amraoui, Y. 371
Berrada, A., see Errahmani, H. 335
Beznosov, A.B., V.A. Desnenko, E.L. Fertman and D.D. Khalyavin, Uniaxial pressure effect on magnetic susceptibility of perovskite manganite $La_{0.66}Ba_{0.34}MnO_3$ 69
Bi, X., S. Gong, H. Xu, K. Ishiyama and K.-i. Arai, Effect of Cu precipitation from metastable crystalline BCC-Fe(Cu) films on magnetic properties 157
Bica, I., Damper with magnetorheological suspension 196
Blomquist, P., see Broddefalk, A. 260
Boisron, O., see Gerber, A. 340
Bombik, A., B. Leśniewska and A.W. Pacyna, AC and DC susceptibility of powder solid solutions of $TmFe_{1-x}Al_xO_3$ and $TmFe_{1-x}Ga_xO_3$ systems ($x \leqslant 0.15$) 25

Bonnentien, J.-L., see Champion, Y. 357
Bonville, P., see Gilles, C. 430
Bourée, F., see Autret, C. 303
Bragiel, P., see Olszewski, J. 381
Brøddefalk, A., P. Nordblad, P. Blomquist, P. Isberg, R. Wäppling, O. Le Bacq and O. Eriksson, In-plane magnetic anisotropy of Fe/V (0 0 1) superlattices 260
Broto, J.M., see Gilles, C. 430
Bruynseraede, Y., see Lagutin, A.S. 190
Buttino, G., A. Cecchetti and M. Poppi, Temperature dependence of structural and magnetic relaxation in amorphous and nanocrystalline Co-based alloys 183

Caneiro, A., see Lamas, D.G. 207
Cecchetti, A., see Buttino, G. 183
Champion, Y., H. Meyer, J.-L. Bonnentien and E. Chassaing, Fabrication of Cu–Co nanogranular bulk materials by mixing of nanocrystalline powders 357
Chassaing, E., see Champion, Y. 357
Chen, C.-J., see Zheng, P. 292
Chen, D.-X., see Li, Y.-F. 179
Chen, J., see Hu, J. 271
Chen, Y., see Li, S.P. 447
Choa, S.-H. and V. Sharma, Sensitivity and rejection capability of thermal asperities in a hard disk drive 466
Chong, T., see Li, K. 89
Chung, J.-S., see Kang, B.-S. 415
Ciurzyńska, W., see Olszewski, J. 381
Coffey, W.T., Y.P. Kalmykov and S.V. Titov, Nonlinear response of fine superparamagnetic particles to the sudden change of a strong uniform DC magnetic field 400

De Oliveira, A.J.A., see Schreiner, W.H. 422
Dennis, K.W., see Kramer, M.J. 147
Desnenko, V.A., see Beznosov, A.B. 69
Dinia, A., see Errahmani, H. 335

El Amraoui, Y., L. Bejjit, A. Lamrabat, H. Arhchoui, A. Benyoussef and M. Haddad, The antiferromagnetic exchange interaction anisotropy and magnetic properties of a diluted Ising-$\frac{7}{2}$ model 371
El Aouad, N., see Bentaleb, M. 390

0304-8853/02/$ - see front matter
PII: S0304-8853(02)00118-X

Eriksson, O., see Broddefalk, A. 260
Errahmani, H., N. Hassanaïn, A. Berrada, M. Abid, H. Lassri, G. Schmerber and A. Dinia, Random anisotropy model approach on ion beam sputtered $Co_{20}Cu_{80}$ granular alloy 335

Fabietti, L.M., see Kramer, M.J. 147
Felner, I., see Nowik, I. 214
Fertman, E.L., see Beznosov, A.B. 69
Fukunaga, H., see Olszewski, J. 381

García, D., see Lamas, D.G. 207
Gerber, A., A. Milner, J. Tuaillon-Combes, M. Négrier, O. Boisron, P. Mélinon and A. Perez, Probing planar arrays of magnetic nano-particles by the extraordinary Hall effect 340
Gilles, C., P. Bonville, H. Rakoto, J.M. Broto, K.K.W. Wong and S. Mann, Magnetic hysteresis and superantiferromagnetism in ferritin nanoparticles 430
Glavatska, N.I., A.A. Rudenko and V.A. L'vov, Time-dependent magnetostrain effect and stress relaxation in the martensitic phase of Ni–Mn–Ga 287
Gondek, Ł., L., S. Majumdar, E.V. Sampathkumaran, B. Penc, N. Stüsser and A. Szytuła, Neutron diffraction study of the crystal and magnetic structure of $Ce_2Co_{1-x}Au_xSi_3$ ($x = 0.4$, 0.6, and 0.8) compounds 283
Gong, S., see Bi, X. 157
Gouvêa, M.E., see Pires, A.S.T. 315
Grishachev, V.V., O.S. Kolotov, A.P. Krasnojon and V.A. Pogozhev, The 90° pulse switching in iron borate monocrystals 81
Guo, Z., see Li, K. 89

Haddad, M., see El Amraoui, Y. 371
Haijun, Z., Y. Xi and Z. Liangying, The preparation and microwave properties of $Ba_2Zn_xCo_{2-x}Fe_{28}O_{46}$ hexaferrites 441
Haik, Y., see Zheng, P. 292
Han, G., see Li, K. 89
Hao, Y., see Hu, J. 271
Hassanaïn, N., see Errahmani, H. 335
Herbst, J.F., see Pinkerton, F.E. 162
Hernando, A., see Li, Y.-F. 179
Hervieu, M., see Autret, C. 303
Hicken, R.J., see Wu, J. 96
Hu, J., C. Ji, H. Qin, J. Chen, Y. Hao and Y. Li, Enhancement of room temperature magnetoresistance in $La_{0.65}Sr_{0.35}Mn_{1-x}T_xO_3$ (T=Fe and Ni) manganites 271
Hughes, N.D., see Wu, J. 96

Isberg, P., see Broddefalk, A. 260
Ishida, K., see Qin, G.W. L1
Ishiyama, K., see Bi, X. 157
Isnard, O., see Mazet, T. 51

Jezierski, A., Effect of Ni deficit on the electronic structure and magnetic properties of $PrNi_{2-x}Sb_2$ 63
Ji, C., see Hu, J. 271

Kainuma, R., see Qin, G.W. L1
Kalmykov, Y.P., see Coffey, W.T. 400
Kamimura, T., see Li, D.X. 17
Kang, B.-S., J.-S. Chung, S.-K. Oh and H.-J. Kang, Energetics of 3d thin film on Cu(001): CuNi surface alloy 415
Kang, H.-J., see Kang, B.-S. 415
Keskin, M., see Albayrak, E. 249
Khalyavin, D.D., see Beznosov, A.B. 69
Khizhnyi, V.I., see Strugatsky, M.B. 330
Khizroev, S., see Litvinov, D. 453
Kilani, M., see Zheng, P. 292
Kim, H.J., J.S. Bae, T.D. Lee and H.M. Lee, Effect of sputtering condition and heat treatment in Co/Cu/Co/FeMn spin valve 173
Kim, K.J., S.J. Lee and J.M. Park, Electronic structure of DO_3-ordered Fe_3Co and Co_3Fe studied by spectroscopic ellipsometry 6
Kitamoto, Y., see Kuroda, C.S. 201
Kiwi, M., see Mejía-López, J. 364
Kolotov, O.S., see Grishachev, V.V. 81
Kramer, M.J., L.H. Lewis, L.M. Fabietti, Y. Tang, W. Miller, K.W. Dennis and R.W. McCallum, Solidification, microstructural refinement and magnetism in $Nd_2Fe_{14}B$ 147
Krasnojon, A.P., see Grishachev, V.V. 81
Kryder, M.H., see Litvinov, D. 453
Kurbakov, A., see Autret, C. 303
Kuroda, C.S., T. Taniyama, Y. Kitamoto and Y. Yamazaki, Magneto-optical properties and morphology of particulate film consisting of Bi-YIG coprecipitated particles 201

L'vov, V.A., see Glavatska, N.I. 287
Lagutin, A.S., R.Z. Levitin, J. Vanacken and Y. Bruynseraede, Field-induced transitions of the intermetallic compound $DyMn_2Ge_2$ 190
Lai, J.K.L., Y.Z. Shao, C.H. Shek, G.M. Lin and T. Lan, Investigation on bulk Nd–Fe–Al amorphous/nano-crystalline alloy 73
Lamas, D.G., A. Caneiro, D. Niebieskikwiat, R.D. Sánchez, D. García and B. Alascio, Transport and magnetic properties of nanocrystalline $La_{2/3}Sr_{1/3}MnO_3$ powders synthesized by a nitrate–citrate gel-combustion process 207
Lamrabat, A., see El Amraoui, Y. 371
Lan, T., see Lai, J.K.L. 73
Lange, A., Kelvin force in a layer of magnetic fluid 327
Lassri, H., see Errahmani, H. 335
Le Bacq, O., see Broddefalk, A. 260
Leaf, G.K., S. Obukhov, S. Scheidl and V.M. Vinokur, Transient dynamics of pinning of domain wall 121

Lebib, A., see Li, S.P. 447
Lee, C.-H., see Yunus, S.M. 40
Lee, H.M., see Kim, H.J. 173
Lee, S.J., see Kim, K.J. 6
Lee, T.D., see Kim, H.J. 173
Lelatko, J., see Olszewski, J. 381
Leśniewska, B., see Bombik, A. 25
Levitin, R.Z., see Lagutin, A.S. 190
Lewis, L.H., see Kramer, M.J. 147
Li, D.X., Y. Shiokawa, T. Nozue, T. Kamimura and K. Sumiyama, Metastable characteristics in ferromagnetic TbPdIn and DyPdIn 17
Li, K., Y. Wu, J. Qiu, G. Han, Z. Guo and T. Chong, High-field sensitive magnetic tunneling junctions fabricated by inductively coupled plasma sputtering 89
Li, S.P., M. Natali, A. Lebib, A. Pépin, Y. Chen and Y.B. Xu, Magnetic nanostructure fabrication by soft lithography and vortex-single domain transition in Co dots 447
Li, Y., see Hu, J. 271
Li, Y.-F., D.-X. Chen, M. Vazquez and A. Hernando, Anomalous large circular susceptibility in nanocrystalline $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$ wires 179
Liangying, Z., see Haijun, Z. 441
Lin, G.M., see Lai, J.K.L. 73
Litvinov, D., M.H. Kryder and S. Khizroev, Recording physics of perpendicular media: hard layers 453
Liu, Y., see Tang, H. 345
Lombardi, K.C., see Schreiner, W.H. 422
Łukiewska, A., see Olszewski, J. 381

Maignan, A., see Autret, C. 303
Majumdar, S., see Ł. Gondek, L. 283
Makarova, M.V., see Nikitin, S.A. 60
Malaman, B., see Mazet, T. 51
Mangrich, A.S., see Schreiner, W.H. 422
Mann, S., see Gilles, C. 430
Martin, C., see Autret, C. 303
Mattoso, N., see Schreiner, W.H. 422
Mazet, T., O. Isnard and B. Malaman, A study of the new $Yb_{\sim 0.6}Fe_6Sn_6$ compound by neutron diffraction, ^{57}Fe and ^{119}Sn Mössbauer spectroscopy experiments 51
McCallum, R.W., see Kramer, M.J. 147
Mejía-López, J., R. Ramírez and M. Kiwi, Analytic treatment of the incomplete ferromagnetic domain-wall model for exchange bias 364
Mélinon, P., see Gerber, A. 340
Meyer, H., see Champion, Y. 357
Meyer, M.S., see Pinkerton, F.E. 162
Miller, W., see Kramer, M.J. 147
Milner, A., see Gerber, A. 340
Młyńczyk, A., see Olszewski, J. 381
Moleski, J.J., see Pinkerton, F.E. 162
Moore, J.R., see Wu, J. 96
Moorthy, V.N., see Rastogi, A.C. 228
Natali, M., see Li, S.P. 447
Négrier, M., see Gerber, A. 340
Niebieskikwiat, D., see Lamas, D.G. 207
Nikitin, S.A., N.Yu. Pankratov, M.V. Makarova and I.S. Tereshina, Magnetic anisotropy and magnetostriction of Lu_2Fe_{17} single crystal 60
Nikitov, S.A., L. Presmanes, Ph. Tailhades and D.E. Balabanov, Magnetic duplication and contact printing method 127
Nimori, S. and A.P. Tsai, Cluster-glass behavior in $Al_{70}Pd_{20}Mn_{10}$ 11
Nordblad, P., see Broddefalk, A. 260
Nørgaard Madsen, K., Angular dependence of switching field measured on maghemite recording particles 220
Nowik, I., I. Felner and U. Asaf, Magnetic properties and hyperfine interactions of ^{151}Eu and ^{57}Fe in Eu_2RuO_5 and $Eu_2Ru_2O_7$ 214
Nozue, T., see Li, D.X. 17

Obukhov, S., see Leaf, G.K. 121
Oh, S.-K., see Kang, B.-S. 415
Oikawa, K., see Qin, G.W. L1
Olk, C.H., see Pinkerton, F.E. 162
Olszewski, J., J. Zbroszczyk, H. Fukunaga, W. Ciurzyńska, A. Łukiewska, M. Piasecki, P. Bragiel, K. Perduta, A. Młyńczyk and J. Lelatko, Transformation from amorphous to nanocrystalline state in $Fe_{85.4}Zr_{6.8-x}Nb_xB_{6.8}Cu_1$ ($x = 0, 1$) alloys 381

Pacyna, A.W., see Bombik, A. 25
Padaikathan, P., see Babu, V. 85
Pankratov, N.Yu., see Nikitin, S.A. 60
Park, J.M., see Kim, K.J. 6
Penc, B., see Szytuła, A. 276
Penc, B., see Ł. Gondek, L. 283
Pépin, A., see Li, S.P. 447
Perduta, K., see Olszewski, J. 381
Perez, A., see Gerber, A. 340
Peters, J. and W. Treimer, On the influence of external forces on the Bloch wall thickness in a nickel single crystal 240
Piasecki, M., see Olszewski, J. 381
Pinkerton, F.E., J.F. Herbst, C.H. Olk, M.S. Meyer and J.J. Moleski, $Tb_{1-x}Dy_xFe_2$/Fe composites: compositional effects on torque response 162
Pires, A.S.T. and M.E. Gouvêa, Dynamics of the quantum one-dimensional Heisenberg antiferromagnet with spin $S = 1$ at low temperature 315
Pogozhev, V.A., see Grishachev, V.V. 81
Poppi, M., see Buttino, G. 183
Presmanes, L., see Nikitov, S.A. 127
Puzzo, M.L.R. and E.V. Albano, The role of interfaces in the propagation of damage in magnetic materials 110

Qin, G.W., K. Oikawa, R. Kainuma and K. Ishida, Magnetically induced phase separation in the Co–Ge binary system L1
Qin, H., see Hu, J. 271
Qiu, J., see Li, K. 89

Rakoto, H., see Gilles, C. 430
Ramírez, R., see Mejía-López, J. 364
Rastogi, A.C. and V.N. Moorthy, Magnetic properties of yttrium iron garnet thin films changed through surface modification by CoO overlayer growth for magneto-optic recording applications 228
Raveau, B., see Autret, C. 303
Rudenko, A.A., see Glavatska, N.I. 287
Rui-Wang, H., see Xiang-Mu, Z. 134

Saber, M., see Bentaleb, M. 390
Sampathkumaran, E.V., see Ł. Gondek, L. 283
Sánchez, R.D., see Lamas, D.G. 207
Scheidl, S., see Leaf, G.K. 121
Schmerber, G., see Errahmani, H. 335
Schreiner, W.H., K.C. Lombardi, A.J.A. de Oliveira, N. Mattoso, M. Abbate, F. Wypych and A.S. Mangrich, Paramagnetic anisotropy of a natural kaolinite and its modification by chemical reduction 422
Sellmyer, D.J., see Tang, H. 345
Shao, Y.Z., see Lai, J.K.L. 73
Sharma, V., see Choa, S.-H. 466
Shek, C.H., see Lai, J.K.L. 73
Shim, H.-S., see Yunus, S.M. 40
Shiokawa, Y., see Li, D.X. 17
Skibinsky, K.M., see Strugatsky, M.B. 330
Ślaski, M., see Szytuła, A. 276
Streever, R.L., Exchange interactions in rare-earth iron garnets 140
Strugatsky, M.B., K.M. Skibinsky, V.V. Tarakanov and V.I. Khizhnyi, Fine structure of Gakel'–Turov oscillations in iron borate 330
Stüsser, N., see Szytuła, A. 276
Stüsser, N., see Ł. Gondek, L. 283
Sumiyama, K., see Li, D.X. 17
Szytuła, A., B. Penc, N. Stüsser and M. Ślaski, Magnetic phase transitions in ErRhSi 276
Szytuła, A., see Ł. Gondek, L. 283

Tailhades, Ph., see Nikitov, S.A. 127
Tang, H., Y. Liu and D.J. Sellmyer, Nanocrystalline $Sm_{12.5}(Co,Zr)_{87.5}$ magnets: synthesis and magnetic properties 345
Tang, Y., see Kramer, M.J. 147
Taniyama, T., see Kuroda, C.S. 201
Tarakanov, V.V., see Strugatsky, M.B. 330
Tereshina, I.S., see Nikitin, S.A. 60
Titov, S.V., see Coffey, W.T. 400
Treimer, W., see Peters, J. 240
Trounov, V., see Autret, C. 303
Tsai, A.P., see Nimori, S. 11
Tuaillon-Combes, J., see Gerber, A. 340

Vanacken, J., see Lagutin, A.S. 190
Vazquez, M., see Li, Y.-F. 179
Vinokur, V.M., see Leaf, G.K. 121

Wäppling, R., see Broddefalk, A. 260
Wong, K.K.W., see Gilles, C. 430
Wu, J., N.D. Hughes, J.R. Moore and R.J. Hicken, Excitation and damping of spin excitations in ferromagnetic thin films 96
Wu, Y., see Li, K. 89
Wypych, F., see Schreiner, W.H. 422

Xi, Y., see Haijun, Z. 441
Xiang-Mu, Z., H. Rui-Wang and Z. Zhong-Wu, Molecular field theory analysis of $R_3Co_{11}B_4$ compounds 134
Xu, H., see Bi, X. 157
Xu, Y.B., see Li, S.P. 447

Yamazaki, Y., see Kuroda, C.S. 201
Yunus, S.M., H.-S. Shim, C.-H. Lee, M.A. Asgar, F.U. Ahmed and A.K.M. Zakaria, Investigation of the magnetic structure of the spinel compound $Zn_xCu_{1-x}FeCrO_4$ by neutron diffraction 40

Zakaria, A.K.M., see Yunus, S.M. 40
Zbroszczyk, J., see Olszewski, J. 381
Zheng, P., Y. Haik, M. Kilani and C.-J. Chen, Force and torque characteristics for magnetically driven blood pump 292
Zhong-Wu, Z., see Xiang-Mu, Z. 134

ELSEVIER

Journal of Magnetism and Magnetic Materials 241 (2002) 481–482

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Subject index to volume 241

AC magnetic susceptibility 25
AC susceptibility 60
Activation and, segregation energies 415
Amorphous and nanocrystalline wires 179
Amorphous/nano-crystalline alloy 73
Angular dependence 220
Anisotropy 60, 140, 422
Annealing 157
Antiferromagnets 315, 430
Auger electron spectroscopy 173

Ball milling 85, 357
Band calculation 6
Barium hexaferrite 85
Bethe lattice 249
Bilayer media 228
Bilayer system 390
Bi–YIG particle 201
Birefringence of sound 330
Bloch wall 240

Cerium compounds 283
Circular susceptibility 179
Cluster deposition 340
Co-based amorphous and nanostructured alloys 183
Coercivity 147
Colossal magnetoresistance 271
Colossal magnetoresistivity 303
Complex permeability 441
Complex permittivity 441
Composite 162
Co–Ge system 1
Coprecipitation 201
Cubic anisotropy 400
Cu–Co 357
Curie temperature 134

Damage propagation in magnetic materials 110
Damper 196
Damping 96
Disordered interfaces 390
Domain structure 240
Domain wall 121
Doping effect 303

Eddy currents 96
Elastic manifold 121
Electron microscopy 303, 381
Electron paramagnetic resonance 422
Electronic structure 6, 63
Exchange bias 364
Exchange bias field 173
Exchange coupling 345
Exchange interactions 134, 214
Exchange parameters 140
Exchange potential 140
Extraordinary Hall effect 340

Fe/V 260
Ferrimagnetic 40
Ferrite 40
Ferritin 430
Ferromagnetic compound 6
Ferromagnetic resonance 96
Ferromagnetism 11, 299

Giant magnetoresistance 89
Gilbert's equation 400
Glassy motion 121
Grain refiner 85
Granular films 335

Haldane 315
Hard disk drive 466
Hard ferrites 85
Hard magnetic property 345
Head-disk interface 466
Heisenberg 315
Hexaferrites 441
Hydraulic circuit 196
Hyperfine interactions 214
Hysteresis 430

Interfaces 364
Interfaces in magnetic systems 110
Intermixed layer 173
Iron borate 330
Iron borate monocrystals 81
Iron micro-particles 196
Irreversibility 17

Kaolinite 422
Kelvin force 327

LMTO 63
Local anisotropy 335
Low-field magnetoresistance 207
LPCVD 228

Magnetic after-effect 183, 381
Magnetic anisotropy 228, 260, 330
Magnetic cluster 11
Magnetic coupling 292
Magnetic devices 364
Magnetic disorder 40
Magnetic fluids 327
Magnetic force 292
Magnetic force microscopy 162
Magnetic hardening 381
Magnetic helix 69
Magnetic inclusions 179
Magnetic moments 63
Magnetic multilayers 364
Magnetic nano-particles 340
Magnetic order 214, 276
Magnetic oxide 69
Magnetic properties 157
Magnetic recording 466
Magnetic recording media 1
Magnetic relaxation 17
Magnetic structures 51, 283, 471
Magnetic susceptibility 25
Magnetic torque 292
Magnetic tunneling junctions 89
Magnetically driven pump 292
Magnetisation 335
Magnetism 89
Magnetization 11, 17, 69, 190
Magnetization and coercivity 85
Magnetization relaxation 400
Magnetizations 390
Magneto-optical recording 228
Magneto-optics 447
Magnetoacoustic effect 330
Magnetoelastic coupling 260
Magnetoelastic interaction 81
Magnetoresistance 173, 357

0304-8853/02/$ - see front matter
PII: S0304-8853(02)00119-1

Magnetorheological suspensions 196
Magnetostatic waves 96
Magnetostriction 60, 162
Manganite 271
Martensite 287
Mechanical milling 345
Metal–insulator transition 271
Metastable state 17
Micromagnetism 240
Miscibility gap 1
Monte Carlo numerical simulations 110
Mössbauer spectroscopy 51, 214, 381
Multilayers 89

Nanocrystalline materials 381
Nanogranular 357
Nanopowder 357
Nanostructured magnets 345
Nanostructured materials 207
Nanostructures 364
Neutron diffraction 40, 51, 240, 283, 303
Nickel single crystal 240
Nonlinear response 400
Nozzle 196

One-dimensional 315
Optical absorption 6

Paramagnetism 422
Particle contamination 466
Particulate film 201
Peritectic 147
Permanent magnets 345
Perovskite structure 69
Perpendicular magnetic recording 453
Perpendicular magnetic recording media 453
Phase diagram 190
Phase separation 1
Phase transition 190
Pinning 121
Powder neutron diffraction 276
Precipitation 157
Pressure effect 69
90° pulse switching 81

Quasicrystal 11

Rare earth 73
Rare earth manganites 303
Rare earth orthoferrites 25
Rare earth ternary compounds 276
Rare earth-iron 162
Rare earth–ruthenium oxides 214
Rare-earth intermetallic compounds 134
Rare-earth iron garnets 140
Recalesence 147
Recording layers 453
Recording noise 1
Recording particles 220
Recording physics 453
Reentrant phenomenon 390
RT_2X_2 compounds 190

Screw pump 292
Single crystal 60
$Sm(Co,Zr)_7$ magnets 345
Small particles and Faraday rotation 201
Soft lithography 447
Solidification 73, 147
Sol–gel 441
Spectroscopic ellipsometry 6
Spin glass 11
Spin wave 335
Spin-$\frac{3}{2}$ BEG model 249
Spin-dependent electronic transport 340
Spin-polarized tunneling 207
Spinel structure 40
Spontaneous spin reorientation 25
Strain 287
Stress relaxation 299
Superantiferromagnetism 430
Superexchange 140
Superlattices 260
Superparamagnetic particles 400
Surface alloy 415
Surface modification 228
Switching field 220

Ternary iron stannide 51
The exact recursion equations 249
Thermal annealing 173
Thermal asperity 466
Thin films 157, 228
Time evolution 287
Torque sensor 162
Transient dynamics 121
Transverse Ising model 390
Two-sublattice molecular field theory 134

Uncompensated magnetisation 430

Weak ferromagnet 330
Weak ferromagnetism 25

Yttrium iron garnet 228